

#3



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/077,849	02/20/2002	Babak Hassibi	29250-000636

CONFIRMATION NO. 3140

FORMALITIES LETTER



OC00000007606954

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 8910
Reston, VA 20195

Date Mailed: 03/08/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 130.

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

04/24/2002 YPOLITE1 00000048 10077849

01 FC:105

130.00 OP

Please type a plus sign (+) inside the box →

HDP/SB/21 based on PTO/SB/21 (08-00)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/077,849
Filing Date	February 20, 2002
First Named Inventor	Babak HASSIBI, et al.
Group Art Unit	2651
Examiner Name	Not Yet Assigned
Attorney Docket Number	29250-000636

Total Number of Pages in This Submission

ENCLOSURES (check all that apply)

☒ Fee Transmittal Form

☒ Fee Attached

☐ Amendment / Response

☐ After Final

☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☐ Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☒ Response to Missing Parts/
Incomplete Application

☐ Response to Missing
Parts under 37 CFR
1.52 or 1.53

☒ Assignment Papers
(for an Application)

☒ Letter to the Official Draftsperson and
Seven (7) Sheets of Formal
Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a
Provisional Application

☐ Power of Attorney, Revocation
Change of Correspondence Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s) _____

☐ After Allowance Communication to
Group

☐ Appeal Communication to Board of
Appeals and Interferences

☐ Appeal Communication to Group
(Appeal Notice, Brief, Reply Brief)

☐ Proprietary Information

☐ Status Letter

☒ Other Enclosure(s)
(please identify below):

Check in the amount of \$130.00

Check in the amount of \$40.00

Remarks

The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm
or
Individual name

Harness, Dickey & Pierce, P.L.C.

Attorney Name
Thomas S. Auchterlonie

Reg. No.
37,275

Signature

Thomas S. Auchterlonie

Date

April 23, 2002

**FEE TRANSMITTAL
for FY 2002**

Patent fees are subject to annual revision.

Complete if Known

Application Number	10/077,849
Filing Date	February 20, 2002
First Named Inventor	Babik HASSIBI, et al.
Examiner Name	Not Yet Assigned
Group / Art Unit	2651
Attorney Docket No.	29250.000636

TOTAL AMOUNT OF PAYMENT (\$ 170

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None
☐ Deposit Account:
 Deposit Account Number
08-0750

 Deposit Account Name
Hamess, Dickey & Pierce, P.L.C.

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity (\$)	Small Fee Code	Entity (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)

(\$ 0

2. EXTRA CLAIM FEES

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
-20 **	-3 **		0	0	0

Large Fee Code	Entity (\$)	Small Fee Code	Entity (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Fee Code	Large Entity Fee (\$)	Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	130.00
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 170

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Thomas S. Auchterlonie	Registration No. Attorney/Agent	37,275	Telephone	
Signature	<i>Thomas S. Auchterlonie</i>			Date	April 23, 2002

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



#3

BOX MISSING PARTS
PATENT
29250-000636

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Babak HASSIBI, et al. Conf: 3140
Appl. No.: 10/077,849 Group: 2651
Filed: February 8, 2002 Examiner: Unassigned
For: CAYLEY-ENCODATION OF UNITARY MATRICES FOR
DIFFERENTIAL COMMUNICATION

THIS IS NOT A NEW PATENT APPLICATION

LETTER SUBMITTING DOCUMENTS
FOR COMPLETION OF AN APPLICATION
PURSUANT TO 37 C.F.R. § 1.53(f)

BOX MISSING PARTS

Assistant Commissioner for Patents
Washington, DC 20231

Date: April 22, 2002

Sir:

The application papers for the above-identified application were originally filed on February 8, 2002 and the application was assigned Appl. No. 10/077,849.

☒ Under the provisions of 37 C.F.R. §§ 1.41(c) and 1.53(f), attached hereto is the executed Declaration of the inventor(s) (☒ original ☐ photocopy), necessary for completing the filing requirements in connection with the above-identified application.

☐ Under the provisions of 37 C.F.R. §§ 1.41(c) and 1.53(f), attached hereto is the executed Declaration that was attached to the specification at the time of execution. The attached specification is a true copy of the specification that was filed in the U.S. Patent and Trademark office on _____, including any amendments thereto (if applicable) filed on even date therewith.

☐ The undersigned hereby declares that "Attorney Docket No. _____ on page 1 of the inventors' Declaration, filed on _____, corresponds to Appl. No. _____, filed _____, entitled "_____."

☒ Attached are seven (7) sheet(s) of formal drawings.

☐ Attached is a copy of Form PTO-1533.

The Government Filing Surcharge (37 C.F.R. § 1.16(e)) and the basic Government Filing Fee (37 C.F.R. § 1.16(a)-(d)) (if applicable) is attached hereto and calculated as follows:

☐ Filing Fee \$0.00

☒ Surcharge (☒ Large Entity - \$130.00;
☐ Small Entity - \$ 65.00)

☐ Attached hereto is a Statement Claiming Small Entity Status (☐ original ☐ photocopy).

☒ Submitted concurrently herewith **under separate cover** for recording is an Assignment.

☐ No extension fee is required because the undersigned has not yet received the Notice to File Missing Parts of Application (Form PTO-1533). However, if for some reason it is determined that an extension of time is necessary, applicant hereby respectfully petitions for an extension of time for the filing of the present paper in accordance with the provisions of 37 C.F.R. § 1.136 and 37 C.F.R. § 1.17.

☐ Applicant hereby respectfully petitions for a ____ (__) month(s) extension of time for the filing of the present paper in accordance with the provisions of 37 C.F.R. § 1.136 and 37 C.F.R. § 1.17. Please charge the required fee of \$_____ to Deposit Account No. 12-2325.

☒ A check in the amount of \$130.00 to cover the basic filing fee, surcharge fee, and any extension of time fees (if applicable) is enclosed.

☐ Please charge Deposit Account No. **08-0570** in the amount of \$_____. A triplicate copy of this transmittal form is enclosed.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. **08-0750** for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

Dated: _____

By:



Thomas S. Auchterlonie

Reg. No. 37,275

HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 8910
Reston, VA 20195
(703) 390-3030

TSA/dg

Attachments



#4

PATENT
29250-000636

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:	Babak HASSIBI, et al.	Confirmation No.	3140
Appl. No.:	10/077,849	Group:	2651
Filed:	February 8, 2002	Examiner:	Unassigned
For:	CAYLEY-ENCODATION OF UNITARY MATRICES FOR DIFFERENTIAL COMMUNICATION		

LETTER TO THE OFFICIAL DRAFTSPERSON

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Attached hereto are seven (7) sheet(s) of formal drawings which comply with the provisions of 37 C.F.R. § 1.84. The drawings should be made a part of the record of the above-identified application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

Dated: 4/22/02

By: Thomas S. Auchterlonie

Thomas S. Auchterlonie
Reg. No. 37,275

HARNES, DICKEY & PIERCE, P.L.C.
P.O. Box 8910
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TSA/dg